

# **Regulations and Curriculum of Bachelor in Occupational Therapy**

**2019**



**Rajiv Gandhi University of Health Sciences, Karnataka**

**4<sup>th</sup> 'T' Block, Jayanagar, Bangalore 560 041**



# Rajiv Gandhi University of Health Sciences, Karnataka, Bangalore

## The Emblem



The Emblem of the Rajiv Gandhi University of Health Sciences is a symbolic expression of the confluence of both Eastern and Western Health Sciences. A central wand with entwined snakes symbolises Greek and Roman Gods of Health called Hermis and Mercury is adapted as symbol of modern medical science. The pot above depicts Amrutha Kalasham of Dhanvanthri the father of all Health Sciences. The wings above it depict Human Soul called Hamsa (Swan) in Indian philosophy. The rising Sun at the top symbolises knowledge and enlightenment. The two twigs of leaves in western philosophy symbolises Olive branches, which is an expression of Peace, Love and Harmony. In Hindu Philosophy it depicts the Vanaspathi (also called as Oushadi) held in the hands of Dhanvanthri, which are the source of all Medicines. The lamp at the bottom depicts human energy (kundalini). The script "Devahitham Yadayahu" inside the lamp is taken from Upanishath Shanthi Manthram (Bhadram Karnebhi Shrunuyanadev...), which says **"May we live the full span of our lives allotted by God in perfect health"** which is the motto of the Rajiv Gandhi University of Health Sciences.



# **Rajiv Gandhi University of Health Sciences, Karnataka, Bangalore**

## **Vision Statement**

The Rajiv Gandhi University of Health Sciences, Karnataka, aims at bringing about a confluence of both Eastern and Western Health Sciences to enable the humankind "Live the full span of our lives allotted by God in Perfect Health"

It would strive for achievement of academic excellence by Educating and Training Health Professionals who

- Shall recognize health needs of community,
- Carry out professional obligations Ethically and Equitably and in keeping with National Health Policy,

It would promote development of scientific temper and Health Sciences Research.

It would encourage inculcation of Social Accountability amongst students, teachers and institutions.

It would Support Quality Assurance for all its educational programmes

## **Motto**

**Right for Rightful Health Sciences Education**





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RAJIV GANDHI UNIVERSITY OF HEALTH SCIENCES, KARNATAKA, BENGALURU  
4<sup>th</sup> T Block, Jayanagar, Bengaluru - 560 041

No. RGU/AUTH/140-SYN/117-4/DCD/2018-19

Date. 09.04.2019

### **NOTIFICATION**

Sub : Ordinance pertaining to Regulation and Curriculum of  
Bachelor in Occupational Therapy course

Ref : 1) Proceedings of the meeting of committee to start new  
courses held on 13.12.2018

2) Minutes of 140<sup>th</sup> Syndicate meeting held on 27.02.2019

\* \* \*

In exercise of the powers conferred under section 35 (1) of RGUHS Act 1994, and as per approval of the Syndicate in its 140<sup>th</sup> meeting held on 27.02.2019, University is pleased to notify the Regulation and Curriculum pertaining to Bachelor in Occupational Therapy course as shown in the Annexure appended herewith.

The above Ordinance shall come into force with effect from the academic year 2019-20 and onwards.

  
**REGISTRAR**

To

The Principals of all affiliated colleges conducting Allied Health Sciences Course

**Copy to : -**

1. The Secretary to Governor, Governor's Secretariat, Raj Bhavan, Bangalore- 560 001
2. Secretary to Government, Health & Family Welfare Department (Medical Education) Vikasa Soudha, Bangalore- 560 001
3. The Director, Department of Medical Education, Ananda Rao Circle, Bangalore- 560 009
4. Director, Curriculum Development Cell, RGUHS
5. PA to Vice-Chancellor/Registrar/Registrar (Evaluation), RGUHS
6. Public Information Officer, RGUHS
7. The Home page of RGUHS website -<http://www.rguhs.ac.in> Authority Section/Fellowship.html
8. Guard file/Office Copy.





**Bachelor of Occupational Therapy- BOT**

**(4 ½ Year Degree Course)**

**REGULATION & CURRICULUM**

**2018**

**Rajiv Gandhi University of Health Sciences, Karnataka**

**4<sup>th</sup> 'T' Block, Jayanagar, Bangalore 560 041.**

**Regulations and Curriculum of**

**BOT 4 ½ Year Course – 2018**

## **Rajiv Gandhi University of Health Sciences, Karnataka, Bangalore**

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## Regulations and Curriculum of Bachelor of Occupational therapy Degree Course (4 ½ Year)

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## **SECTION – 1**

Regulations Governing BOT Degree Course: These ordinances shall be called “The Ordinances, Syllabus and Scheme of Examination pertaining to the Bachelor of Occupational Therapy course, BOT.”

The Bachelor of Occupational Therapy 4 1/2 year course can be started at any Medical College with attached Hospital facility having 250-300 in-patient beds.

### **1. ELIGIBILITY for students seeking admission:**

#### **1.1: Qualifying Examination:**

A Candidate seeking admission to first year Bachelor in Occupational Therapy (BOT):

i) Should have passed two year Pre University examination conducted by Department of Pre- University Education, Karnataka State, with English as one of the subjects and Physics, Chemistry and Biology as optional subjects. The candidate shall have passed subjects of English, Physics, Chemistry and Biology as optional subjects. The candidate shall have passed subjects of English, Physics, Chemistry and Biology individually also.

OR

ii) Shall have passed any other examination conducted by Boards/Councils Intermediate examination established by State Government/Central Government and recognised as equivalent to a two year Pre University Examination by Rajiv Gandhi University of Health Sciences/ Association of Indian Universities (AIU), with English as one of the subjects and Physics, Chemistry and Biology as optional subjects. The candidate shall have passed subjects of English, Physics, Chemistry and Biology as optional subjects. The candidate shall have passed subjects of English, Physics, Chemistry and Biology individually also.

#### **1.2: Marks:**

The selection of students to a course of Occupational Therapy shall be based on merit provided that:

a). In case of admission on the basis of qualifying examination, a candidate for admission to BOT course must have passed individually in the subjects of Physics, Chemistry, Biology and English and must have obtained not less than 40% marks taken together in Physics, Chemistry and Biology in the qualifying examination.

#### **1.3: Age:**

A candidate seeking admission to Bachelor of Occupational Therapy course should have completed 17 years of age, at the time of admission.

Every candidate before admission to the course shall furnish to Principal of the Institution a certificate of Medical Fitness from an authorised Government Medical Officer to the effect, that the candidate is physically fit to undergo Occupational Therapy course.

**2. DURATION OF THE COURSE:**

The duration of the BOT Course shall be four and half years including internship of six months.

**3. MEDIUM OF INSTRUCTION:**

English shall be the medium of instruction for all the subjects of study and for the examinations of the BOT Course.

**4. COURSE OF STUDY - SUBJECTS AND HOUR DISTRIBUTION:**

Please refer to Appendix 1-9

**5. ATTENDANCE:**

A candidate is required to attend at least 80 percent of the total classes conducted in a year in all subjects prescribed for that year, separately, in theory and practical /clinical sessions to become eligible to appear for the university examination in the first attempt. Principals should notify at their college, the attendance details at the end of each semester without fail, under intimation to the University.

**6. INTERNAL ASSESSMENT:**

It shall be based on evaluation of periodic tests, assignments, clinical presentations etc., (see Annexure -I for example). Regular periodic examinations should be conducted throughout the course. There should be a minimum of two (2) Sessional examinations during each semester. The average of the two examination marks should be reduced to 20 for each Theory and Practical/Clinical, and sent to the University before the University examination as per notification. Proper record which forms the basis of the Internal Assessment should be maintained for all students and should be available for scrutiny. The marks of periodical tests should be displayed on the student notice board by Principals.

A Candidate must obtain a 35% mark in theory and practical examinations separately and in internal assessment to be eligible to write the University examination.

## **7. SCHEDULE OF EXAMINATION:**

There will be one examination in each semester, to be conducted as per notification issued by the University from time to time.

These examinations for both theory and practical will be held at the end of each semester. The particulars of subjects for various examinations and distribution of marks are shown separately in Tables V to VIII.

The examination for main subjects shall be conducted by the University and for subsidiary subjects by the respective college.

## **8. CRITERIA FOR PASS:**

### **8.1: Main Subjects:**

A candidate is declared to have passed university examination in a subject, if she/he secures 35 % of the marks in theory and 35 % in practical separately. For computation of 35 % marks in theory, the marks scored in the internal assessment [theory] shall be added to the University conducted written examination and for a pass in practical, the marks scored in University conducted practical examination and viva voce and internal assessment [practical] shall be added together.

### **8.2: Subsidiary Subjects:**

For a pass in Subsidiary subjects, a candidate shall secure 35% of the total marks prescribed for the subject. The marks obtained should be sent to the University 15 days prior to the commencement of University examination by the college.

## **9. SCHEME OF EXAMINATION:**

Please refer to Appendix 1-9

### **SUBJECTS AND DISTRIBUTION OF MARKS:**

#### **9.1: Theory:**

- **Main Subjects:** 100 marks divided between 80 marks (written examination at end of semester) and 20 marks (internal assessment based on semester-long work presentation)
- **Subsidiary Subjects:** 50 marks divided between 40 marks (written examination at the end of the semester) and 20 marks (internal assessment based on semester-long work presentation)

#### **9.2: Practical:**

100 marks divided between 60 marks (practical exam at end of semester), 20 (viva voce), and 20 (internal assessment)

## **10. DECLARATION OF CLASS:**

**10.1:** A candidate having appeared in all the subjects in the same examination and passed that examination in the first attempt and secures 75% of marks or more of grand total marks prescribed will be declared to have passed the examination with distinction.

**10.2:** A candidate having appeared in all subjects in the same examination and passed that examination in the first attempt and secures 65% of marks or more but less than 75% of grand total marks prescribed will be declared to have passed the examination in first class.

**10.3:** A candidate having appeared in all the subjects in the same examination and passed that examination in the first attempt and secures 50% of marks or more but less than 65% of grand total marks prescribed will be declared to have passed the examination in second class.

**10.4:** A candidate passing the university examination in more than one attempt shall be placed in Pass class irrespective of the percentage of marks secured by him/her in the examination.

**10.5:** The marks obtained by a candidate in the subsidiary subjects shall not be considered for award of Class or Rank. [Please note fraction of marks should not be rounded off clauses 10.1, 10.2, and 10.3]

## **12. INTERNSHIP:**

**12.1:** There shall be six months (26 weeks) of Internship after the final year examination for candidates declared to have passed the examination in all the subjects. Internship should be done in a teaching hospital recognised by the University limited to within Karnataka only.

**12.2:** No candidate shall be awarded degree certificate without successfully completing six months of internship.

**12.3:** The internship should be rotatory and cover clinical branches concerned with Occupational Therapy such as Orthopaedics, Cardio-thoracic including ICU, Neurology, Neurosurgery, Paediatrics, General Medicine, General Surgery, Psychiatry (both inpatient and outpatient services).

**12.4:** Successful Completion – The student must maintain a logbook. On completion of each posting, the same will have to be certified by the faculty in charge of the posting for both attendance as well as work done. On completion of four postings, the duly completed logbook will be submitted to the Principal/Head of program to be considered as having successfully completed the internship program

**Framework for setting up Occupational Therapy Course and Occupational Therapy Department:**

This is drafted keeping in mind a course for **20 students**.

Occupational Therapy course can be started by any **Medical Teaching College with an attached hospital with 250-300 beds**

Along with the course, the college will be expected to start an Occupational Therapy Department to provide Occupational Therapy services to patients and provide clinical experience to students

The head of this department will have to be a certified Occupational Therapy practitioner with a minimum of Masters Degree in Occupational Therapy

The faculty of the department of Occupational Therapy will have a dual responsibility of running the clinical work along with conducting lectures and practicum for the students. The minimum qualification for a new college can be BOT with 5 years experience, or MOT, it is expected that before the second batch of students pass out, all the faculty would have MOT qualification. MOT with respective qualifications will be in charge of the specific units

The college will have to get its accreditation by the third year of starting new course from The All India Occupational Therapist's Association/World Federation of Occupational Therapy. Failure to do so would interfere with the vocational chances of the students. The accreditation allows students passed out from the college to travel and get credentialed and employed by any foreign country.

Details of required service/clinical areas:

S. No.	Description of clinical/service area	Area in sq.ft
1	Musculoskeletal and Hand Rehabilitation Unit	400
2	Neurological Rehabilitation Unit	400
3	Child Habilitation Clinic	500
4	Splinting/Assistive Technology Clinic/Lab	250
5	Psychosocial Rehabilitation Clinic	250
6	Activities of Daily Living Unit	500
7	Work Rehabilitation Clinic	400
8	Standard Evaluation Lab	200



Non-clinical space requirement:

S. No.	Description of non-clinical space	Area in sq. ft.
1	Classroom (One classroom to be added each subsequent year)	300
2	Demonstration room	300
3	Staff cubicles (4 to begin with)	64
4	Office room	250
5	HOD room	100
6	Students common room, separated gender wise	300

Occupational Therapy Department Equipment List:

1. Hand therapy lab : Musculoskeletal

S. No.	Equipments	Required quantity
1.	Jebson Taylor Hand Function Test	01
2.	Purdue Pegboard Test	01
3.	Pinchometer	01
4.	Dynamometer	01
5.	Isolated finger exerciser	01
6.	Grip exercisers	01
7.	Crawford small part dexterity test	01

2. Functional restoration lab & Assistive technology lab:

S. No.	Equipment	Required quantity
1.	Functional assessment kit for ADL	01
2.	Ergonomically devised adapted equipments for home, work place and leisure	01
3.	Self-help adapted equipment	01
4.	Wheelchair modifications	01
5.	Mobility aids	04
5.	Electrical Drill machine	01
6.	Sewing Machine	01
7.	Heat Bath	01
8.	Heat Gun	01
9.	Bench Vice	01
10.	Tools for orthotics	1 set

3. Work assessment, simulation, and hardening lab : Community based and Industrial rehab:

S. No.	Equipments	Required quantity
1.	Tailoring equipment	01
2.	Carpentry Tools	01
3.	Typewriter/Computer	02
4.	Printing press	01
5.	Work sample tests	01
6.	Staircase	01

7.	Work simulator	01
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5. Cognitive-perceptual lab & Sensory motor therapy: Neuro OT:

S. No.	Equipments	Required quantity
1.	Cognition & Perception Testing Batteries	01
2.	Sensory Assessment Kits	01
3.	Balance Assessment Tools	01
4.	Neuro-therapeutic modalities	01
5.	Stability Trainers	01

6. Psycho-social remedial lab : OT for Mental Health:

S. No.	Equipments	Required quantity
1.	Reaction time machine	01
2.	Tests for fine motor skills and motor accuracy	01
3.	Psychomotor activities	01
4.	Indoor and Outdoor Games	01
5.	Cognitive Retraining activities	01

9. Developmental Therapy : Paediatric:

S. No.	Equipments	Required quantity
1.	Cerebral Palsy Chairs	05
2.	Floor Mats	04
3.	Play Equipments	Lots
4.	Vestibular-Proprioceptive equipment	01

5.	Puzzles/Books	Lots
6.	Fine-motor Games	Lots
7.	Art activities	Lots
8.	Perception assessment tools	01

Cardiovascular:

S. No.	Equipments	Required quantity
1.	Basic tools of assessment for Cardio-pulmonary parameters	01
2.	Bicycle Ergometer	01
3.	Treadmill	01
4.	Fat pad measurement tools	01
5.	Spirometer	01

General:

S. No.	Instruments	Required quantity
1.	Goniometers	05
2.	Wobble Board	02
3.	Exercise mattress (Large)	02
4.	Exercise Mattress (Small)	02
5.	Wall Bar	01
6.	Slings and ropes (suspension apparatus)	01
7.	Parallel Bars	01
8.	Medicine Balls	02

9.	Tilt Table	01
10.	Axillary crutches (Adult & Pediatrics)	02 each
11.	Wheel chair (Big and Small)	02
12.	Walker (Adult and Baby walker)	02 each
13.	K-Walker (Adult and baby)	02 each
14.	Shoulder ladder	02
15.	Wrist roller	01
16.	Static cycle (Bicycle fretsaw)	02
17.	X-ray viewer	01
18.	Rowing machine	02
19.	Elbow crutches	02
20.	Mattress for mat exercise	02
21.	Posture examining device	01
22.	Pelvic level device	01
23.	Pelvic traction kit	01
24.	Cervical traction kit	01
25.	Weighing machine	01
26.	De-Lorme's Metal Weight Shoe	01
27.	Shoulder pulley, ladder, wheel	01
28.	Joggers (Manual Treadmill machine)	01
29.	Quadriceps springs	01
30.	BP apparatus	01
31.	Skinfold calipers	01

32.	Walking stick adjustable	02
33.	Tripodstick adjustable	02
34.	Vestibular ball (cotton)	02
35.	Torch	02
36.	Tendon hammer	02
37.	Handgrip dynamometer	01
38.	Multiexerciser	01
39.	Physioroll 34 inches	01
40.	Examination Table	05
41.	Dumbbells	10
42.	Weights	09 pairs
43.	Weight bars with weight pans	2+2+2
44.	Sand bags	10
45.	Peak flow meter	01
46.	Therabands	04
47.	Full length mirror	01
48.	Inclined & horizontal sand boards	05
49.	Sandblocks, weights, and pulleys	05

Provisional Item list for setting up OT Department:

S. No.	Department	Items Needed
1	Splinting	Brass Handle Scissor, Heat Gun, Taparia cutting Pliers, Taparia Nose Pliers,

		Bench Vice, Grinder, Drill Machine and Bit Set, Tin Cutter, Hock Saw Frame, Cast Steel Anvil, Wooden Mallet, Adjustable Projector Trolley, Files, Ball Pen Hammer, Water Bath, Wire Cutter, Riveting/Bending Rolling Tool, Small Heating Pan, Merrit Foot Machine, Heavy Duty Shear, All-purpose Snip, Hole Punch, Centre Punch, Metal Scales
2	Mobility Aids	Rehab Aid Quadripod, Rehab Aid Tripod, Wheel Chairs, Walking Aid Folding (Adjustable), Walker infant, Walker Scissors Gait Prevention (junior size), Wooden Walking cane, Walker Folding 4wheel, Various types of crutches
3	Teaching Aids	Skeleton and stand, X-ray lobby viewing box, Hand Splinting set, Orthosis set, Prosthesis Set, Adaptive Device Set
4	Assessment Tools	Sphygmomanometer, Jamar Pinch Gauge Hydraulic, LOCTA, Biofeedback, Tuning Fork, Knee Hammer, Replacement Probe Hot/Cold, Tracker – Hand Evaluation Kit, Visual Choice Reaction Inner, Jebson-Taylor Hand Function Test, Tremor Quantifier, COPM Kit, Dyslexia Adult Screening Test, Movement ABC-2 Complete Set, Bennett's Hand Tool Dexterity Comp Set, CSPDT Complete Set, E- MOHO (CD - OPHI-II, CD – Educational Version), Goniometer Set, Jamar Hand Evaluation Kit, Evaluation Tool of Children's Handwriting, TVPS: R Kit, Weight Discrimination, Infant Toddler Sensory Profile, O'Conner Dexterity Test, DOTCA - CH, Touch Test Sensory Evaluation, Hand Evaluation Kit, BADS C-Kit, Berry Visuo-Motor Integration, TEA CHKIT, Children's Memory Scale Complete Kit, Aesthsiometer Monofilament
5	Therapeutic Items	Rehab Trainer - Sammons Preston Rolyon Ergometer, Mirror ( 5' X3.5" , 5 mm0
6	Furniture	Tables, Chairs (classroom/office), Cupboards, Pin-up Board, Notice Board, Treatment Plinth Low/ High, Revolving Stools, Lockers, Storage Furniture
7	Pediatric Unit	Adaptable Seat Position Durable Metal, Framer Rope Ascender, Proner Swing, Plain Disc Swing, Platform Swing, Roll Swing, Thick Frame Set: Hammock Swing, Vestibular Swing System, Jumping Stand, Sit and Spin, Sand and Walker Table, Music Player, Wedges, Wooden Beads, Rocker and Wobble Boards, Infant Adaptation Kit, Balance Beams, Scooter Boards, Therapy Balls, Oro-motor Sets, Variety Toys and Games
8	Adult Unit	Commode Chair, Tramble with ramp attachment, Arm/leg combo skate with hand, Skacking cones, Digiflex set of 5, Pegboards, Kitchen Set, Grooming Set, Power Pump, Hand Assembly Training Device, Rebounder, Stability Trainer, Soft Iron Dumb-bells, Rehab WT Bar Set, Medicine Ball Set,

		Rolyon Resist Prehension Bench, Rolyon Weight Cuff, Elgin Leg Ankle Exerciser, Work Hardening Set, Desensitization Set, Delux Pedal Exerciser, ADL Set, Scar Suction Pump, Grip Exerciser, Multi Exerciser Therapy Unit
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**Comprehensive list of books for Occupational Therapy 4 ½ year Bachelor course (BOT)**

Willard and Spackman's Occupational Therapy by Elizabeth Blesedel Crepeau, Ellen S Cohn, Barbara A Boyt Schell. Published by Lippincott Williams & Wilkins

Occupational Therapy – Practice Skills for Physical Dysfunction by Lorraine Williams Pedretti. Published by Mosby

Occupational Therapy for Physical Dysfunction by Catherine A Trombly, Mary Vining Randomski, Published by Lippincott Williams & Wilkins

Occupational Therapy and Physical Dysfunction: Principles, Skills and Practice by Annie Turner, Marg Foster, Sybil E Johnson, Published by Churchill Livingstone

Therapeutic Exercise by John V Basmajian & Steven L Wolf. Published by Williams & Wilkins

Therapeutic Exercise, Foundation, & Techniques by Carolyn Kisner, & Lynn Allen Colby. Published by F A Davis Company

Muscle Testing & Function by F P Kendall

Daniel's & Worthingham's Muscle Testing

Measurement of Joint Motion: A Guide to Goniometry by C C Norkin & D J White

Principle of Exercise Therapy by Dena Gardiner

Joint Structure and Function – A comprehensive analysis by C C Norkin, P K Levangie

Biomechanics of human motion by Williams Lissner

Physical Rehabilitation Assessment & Treatment by O'Sullivan

An introduction to Occupational Therapy by A Turner

Closed Functional Treatment of Fractures by A Sarmiento, L Latta

Hand and Upper extremity Splinting: Principles & methods by E E Fess, C A Phillips, Gettle K S & Jasonji

Rehabilitation Medicine by Goodgold

Rehabilitation of Hand by Wynn & Parry

Rehabilitation of Hand: Surgery and Therapy by Hunter



Pulmonary rehabilitation, guidelines to success – Hodgkin T E

Work Physiology by Mac Ardle

Textbook of Work Physiology: Astrand P A, Rodahe K

Human Performance: Fitts P M, & Posner M I

Ergonomics for Therapists by Karen Jacobs

Ergonomics – Man in his working environment by Mural K F

Time and Motion Study by Mundel

Treatment and Rehabilitation of Fractures by S Hoppenfield and V L Murthy

Orthopaedic Physical Assessment by David Magee

Clinical Orthopaedic Rehabilitation by Brent Brotzman

Krusen's Handbook of Physical Medicine & Rehabilitation

Occupational Therapy in Short Term Psychiatry by M Wilson

Occupational Therapy in Long Term Psychiatry by M Wilson

Occupational Therapy: a communication process by G S Fidler and J W Fidler

Quick reference to Occupational Therapy by K Reed

Occupational Therapy and Mental Health by J Creek

Mental Health concepts and techniques for Occupational Therapy Assistants by M B Early

Textbook of social and Preventive medicine by Park

Disabled Village Children by David Werner

WHO's ICF 2001

Guidelines for evaluation of various disabilities and procedure for certification – By Ministry of Social Justice and Empowerment, Govt of India (Notification 2001)

Objective Evaluation of Impairment and Ability in Locomotor Handicapped – Dr. Sabapathyvinayagam Ramar

**For Reference:**

A manual for evaluation and treatment of perceptual and cognitive deficits – B Zoltan, E Siev, B Freishtat

Neurological Rehabilitation – A U Darcy

Occupational Therapy for Children – J CaseSmith and A Pratt

Community Based Rehabilitation by Malcolm Peat